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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,537	10/23/2001	Curtis D. Mowry	SD6790/S96443	4708
7	590 04/22/2004		EXAMINER	
Sandia National Laboratories MS-0161			CROSS, LATOYA I	
P.O. Box 5800			ART UNIT	PAPER NUMBER
	Albuquerque, NM 87185-0161		1743	
			DATE MAILED: 04/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

7					
		Application No.	Applicant(s)		
		10/035,537	MOWRY ET AL.		
	Office Action Summary	Examiner	Art Unit		
	*	LaToya I. Cross	1743		
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address		
THE N - Exten after: - If the - If NO - Failur Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period veron to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing department. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).		
Status	·	•			
1)[	Responsive to communication(s) filed on 05 Fe	ebruary 2004.			
2a)⊠	This action is <b>FINAL</b> . 2b)☐ This	action is non-final.			
•					
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1-38</u> is/are pending in the application. 4a) Of the above claim(s) <u>1-6 and 21-33</u> is/are Claim(s) is/are allowed. Claim(s) <u>7-20 and 34-38</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	withdrawn from consideration.			
Application	on Papers				
·	The specification is objected to by the Examine The drawing(s) filed on is/are: a)☐ acce		- - - -		
	Applicant may not request that any objection to the				
	Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
a)[ : : :	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive r (PCT Rule 17.2(a)).	on No d in this National Stage		
Attachment(	· •	_			
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

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#### **DETAILED ACTION**

This Office Action is in response to Applicants' amendments dated February 5, 2004. Claims 1-38 are pending. Claims 1-6, 21-33 are withdrawn from consideration. Claims 34-38 have been newly added.

### Withdrawal of Rejections from Previous Office Action

- The anticipatory rejection of claims 7, 8, 10-13 and 20 over Meuzelaar is withdrawn in view of Applicant's amendment to recite the structure of the micropyrolyzer used in the method.
- The anticipatory rejection of claims 7, 9, 15, and 20 over Wohltjen et al is withdrawn in view of Applicant's amendment to recite the structure of the micropyrolyzer used in the method. It appears from the reading of Wohltjen et al that the resistive heating unit is not disposed on the substrate onto which the sample is collected, as recited in claim 7. See col. 5, lines 34-50 of Wohltjen et al.
- The obviousness rejection over Bertrand is withdrawn in view of Applicant's amendment to recite the structure of the micropyrolyzer used in the method.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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2. Claims 7, 20, 37 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 4,710,354 to Behar et al.

Behar et al teach a micropyrolyzer for the pyrolysis of solid or liquid samples taken in small amounts. The device comprises a tubular oven (1) having a wall inside of which defines a heating zone (3), which has attached to it a heating means (4). The heating means is a resistive heating means (col. 2, lines 63-66). The surface that the sample is heated on is preferably made of gold. A small sample is introduced into sample rod (9) and inserted into the oven. Once in the heating position, the oven is heated to a temperature of 550oC. After pyrolysis, heating is stopped. The vaporized products are removed from the trap and analyzed by a gas phase chromatography apparatus, which may be connected to the oven output. See col. 4, lines 45-50, lines 55-68 and col. 5, lines 44-51.

Therefore, for the reasons set forth above, Applicants' claimed invention is deemed to be anticipated, within the meaning of 35 USC 102(b) in view of the teachings of Behar et al.

3. Claims 7-20 and 34-38 are rejected under 35 U.S.C. 102(a) as being anticipated by "Rapid Identification of bacteria with miniaturized pyrolysis/GC analysis" authored by Morgan et al.

Morgan et al teach the identification of bacteria and other biological substances using micropyrolyzers. The micropyrolyzer comprises a metal resistive heater formed on top of a silicon nitride membrane. The micropyrolyzer is capable of heating up to 70°C/millisecond. The micropyrolyzer requires 250mW power. See figure 3. According to figure 2, the sample is collected and introduced into the pyrolyzer. The pyrolyzer rapidly heats the sample to obtained a vaporized product. The vaporized products obtained after heating are introduced

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into a gas chromatograph for analysis. With respect to the samples to be analyzed, Morgan et al teach fatty acids (page 199 and figure 1). The reference also teaches the addition of methylation reagents (such as tetramethylammonium hydroxide) to the sample as a derivatizing agent.

Therefore, for the reasons set forth above, Applicants' claimed invention is deemed to be anticipated, within the meaning of 35 USC 102(a) in view of the teachings of Morgan et al.

#### Response to Arguments

- 4. Applicant's arguments with respect to claims 7-20 and 34-38 have been considered but are most in view of the new ground(s) of rejection.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaToya I. Cross whose telephone number is 571-272-1256. The examiner can normally be reached on Monday-Friday 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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